

Takashi YAMAMIZU et al., S.N. 10/519,891
Page 2

RECEIVED Dkt. 1141/73452
CENTRAL FAX CENTER

AUG 30 2006

Listing of Claims

The following listing of claims will replace all prior versions, and listings, of claims in the subject application:

1. (previously presented) A magnetic resonance imaging apparatus comprising:
 - a gantry including a pair of upper magnet and lower magnet arranged oppositely and concentrically in a vertical direction, sandwiching a measurement space into which an object to be examined is inserted and a pair of columns for supporting the upper magnet installed over the outer parts of the upper magnet and the lower magnet in the vertical direction; and
 - a bed on which the object is placed, including (i) a bed base and (ii) a top plate inserted into the measurement space,
 - wherein the pair of columns is oppositely arranged with respect to a central axis of the upper magnet and the lower magnet, and a cross sectional area of one column of the pair of columns is made smaller than that of the other, and
 - wherein the bed base is movable along the periphery of the gantry, the bed is disposed at the side of the column with small cross sectional area with respect to a line perpendicular to both (i) a line connecting the centers of the pair of columns and (ii) a line passing through the center of the pair of magnets, and the top plate is moved along a longitudinal and a transverse direction of the bed base.

2. (original) A magnetic resonance imaging apparatus according to claim 1, wherein a width of the column with small cross sectional area in a direction perpendicular to a line connecting centers of the pair of columns is 1/2 or smaller of that of the other column in the

Takashi YAMAMIZU et al., S.N. 10/519,891
Page 3

Dkt. 1141/73452

identical direction.

3. (previously presented) A magnetic resonance imaging apparatus according to claim 1, wherein either or both of the pair of columns has a shape bulged outward in the center.

Claim 4 (canceled).

5. (previously presented) A magnetic resonance imaging apparatus according to claim 1, wherein the direction of the line perpendicular to the line connecting the centers of the pair of columns and passing through the center of the pair of magnets intersects with a direction of the top plate insertion at an angle of 15 to 45 degrees.

6. (previously presented) A magnetic resonance imaging apparatus, comprising:
a gantry including a pair of upper magnet and lower magnet arranged oppositely and concentrically in a vertical direction, sandwiching a measurement space to which an object to be examined is inserted and a pair of columns for supporting the upper magnet installed over the outer parts of the upper magnet and the lower magnet in the vertical direction; and

a bed on which the object is placed, including (i) a bed base and (ii) a top plate inserted into the measurement space,

wherein the pair of columns is oppositely arranged with respect to a central axis of the upper magnet and the lower magnet, and a cross sectional area of one column of the pair of columns is made smaller than that of the other,

wherein the bed base is movable along the periphery of the gantry, and the bed base

Takashi YAMAMIZU et al., S.N. 10/519,891
Page 4

Dkt. 1141/73452

extends longitudinally along a line angled to both (i) a line perpendicular to a line connecting the centers of the pair of columns and (ii) a line passing through the center of the pair of magnets, and the top plate is moved along the longitudinal and the transverse direction of the bed base, and wherein the bed is disposed so that the top plate is inserted from a position in the vicinity of the column with large cross sectional area toward the center of the pair of magnets.

7. (previously presented) A magnetic resonance imaging apparatus according to claim 1 further comprising a bed fixing section connected to a connecting section of the bed, wherein the bed fixing section is disposed so that the top plate is inserted from a predetermined position toward the center of the pair of magnets, and the bed is fixed by connecting the connecting section of the bed with the bed fixing section.

8. (previously presented) A magnetic resonance imaging apparatus according to claim 1, wherein the column with small cross sectional area has a substantially rectangular cross section, and its longitudinal direction corresponds to the diameter direction of the magnet.

9. (previously presented) A magnetic resonance imaging apparatus according to claim 1, wherein the side surface of the column with large cross sectional area facing the magnet center is tapered with its top pursed.

10. (previously presented) A magnetic resonance imaging apparatus according to claim 5, wherein the direction of the line perpendicular to both (i) the line connecting the centers of the pair of columns and (ii) the line passing through the center of the pair of magnets intersects with

Takashi YAMAMIZU et al., S.N. 10/519,891
Page 5

Dkt. 1141/73452

a direction of the top plate insertion at an angle of 25 to 35 degrees.

11. (new) The magnetic resonance imaging apparatus of claim 1, wherein the bed is disposed at the side of the column with small cross sectional area such that a patient inserted with a head of the patient near the imaging volume can be accessed from both sides of a body of the patient.